

NRG Montville Operations Inc. Montville Generating Station 74 Lathrop Road Uncasville, CT 06382

Main Phone # 860.848.9248 Fax # 860.848.6006

January 30, 2017

Ms. Jessica Stefanowicz Connecticut Department of Energy and Environmental Protection 79 Elm Street Hartford, Connecticut 06106

Subject: Semi-Annual Site Status Update

Montville Generating Station, Montville Power LLC, Montville, CT

Dear Ms. Stefanowicz:

Montville Power LLC is submitting the enclosed Semi-Annual Site Status Update for the Montville Generating Station in Montville, Connecticut. This report provides a site status update for the period of January through November 2016 at the site.

Should you have any questions or require further information, please call Mr. Ian Cambridge at (860) 848-6017.

Thank you,

Nick Volturno
Plant Manager
Montville Power LLC

Enclosure(s)

CC:

Juan Perez, USEPA (e-copy only) Bob Spooner, NRG (e-copy only)

lan Cambridge, NRG Montville (hard copy and e-copy)

Andrew D. Walker, LEP, CB&I (e-copy only)

File (hard copy and e-copy)



CB&I Environmental and Infrastructure, Inc.

150 Royall Street Canton, MA 02021 Tel: +1 617 589 5111 Fax: +1 617 589 5495

www.CBI.com

January 16, 2017 Project #: 631207126.01021320

Ms. Jessica Stefanowicz Connecticut Department of Energy and Environmental Protection 79 Elm Street Hartford, Connecticut 06106

Subject: Semi-Annual Site Status Update

Montville Generating Station Montville, Connecticut

Dear Ms. Stefanowicz:

On behalf of Montville Power LLC (Montville Power) and its parent company, NRG Energy, Inc. (NRG), CB&I Environmental and Infrastructure, Inc. (CB&I) has prepared this letter to provide a semi-annual site status update for the subject site. A Site Plan is provided as **Figure 1**. In addition, CB&I is providing the Connecticut Department of Energy & Environmental Protection (CTDEEP) with the schedule for continuing environmental activities at the site. This report covers the period of January through November 2016.

GROUNDWATER MONITORING – JUNE 2016

Groundwater Sampling

Groundwater monitoring during this reporting period was conducted on June 16 and 17, 2016 at the locations and for the parameters listed in the table below. During the June 2016 event, groundwater samples were collected from existing wells to monitor groundwater concentration trends of metals and to assess compliance with applicable criteria. Additional groundwater samples were collected from existing wells in the vicinity of the low permeability caps in AOC 9 for the annual AOC 9 Engineered Control groundwater monitoring.

Sample Location		Analysis
	Annual AOC9 EC GW Monitoring	Semi-annual Compliance GW Monitoring
	Total As, Ni, Pb, Sb, Se, V by	Total As, Be, Cu, Ni, V, Zn by USEPA Method
	USEPA Method 6010C	6010C or low level by USEPA Method 6020A
AOC1-SB2-MW1	X	
AOC3-SB1-MW1		Х
AOC3-SB4-MW2		Х
AOC12-MW301		Х
AOC12-MW302		Х
AOC12-MW305		Х
AOC12-MW306		Х
MV-6	X	Х
MW-11	X	
NRG-MW5		X (low level)
NRG-MW7		Х
NRG-MW8	Х	

Well AOC12-MW304 could not be located and was not sampled as planned during the June 2016 sampling event. Field personnel attempted to locate the well with a Global Positioning System (GPS) unit and a metal detector. Well NRG-MW3 contained only approximately 1 foot of water and was not sampled as planned during the June 2016 sampling event.

During the June 2016 sampling event, depth to groundwater was measured at each of the monitoring wells using an electronic interface probe (IP). The IP used detects water and light non-aqueous phase liquid (LNAPL), if present, to within accuracy of 0.01 foot. LNAPL was not detected in monitoring wells gauged during this event. Non-detects of LNAPL are consistent with previous results. Results of water level monitoring from the June 2015 sampling event are summarized in **Table 1**.

During the June 2016 sampling event, CB&I collected groundwater samples from the monitoring wells using a modified low flow sampling technique. Well locations are shown on **Figure 1**. Each well was pumped at a rate that produced little or no draw down while parameters including temperature, pH, oxidation reduction potential (ORP), dissolved oxygen (DO) and conductivity were monitored. Groundwater samples were then collected after the parameters stabilized to ensure that the each sample was representative of local aquifer conditions. Based upon previous exceedances of the Remediation Standard Regulations (RSR) criteria in groundwater samples collected at the site, groundwater samples were submitted to Accutest Laboratories of Marlborough, Massachusetts for analysis of select total metals including arsenic, beryllium, copper, nickel, vanadium, and zinc. The complete laboratory analytical reports for the June 2016 sampling event is included in **Attachment 1**.

Groundwater Results - Semi-annual Compliance Groundwater Monitoring

Groundwater analytical results from the June 2016 sampling event are summarized in **Table 2** (GA groundwater area monitoring wells) and **Table 3** (GB groundwater area monitoring wells). As appropriate, **Tables 2** and **3** compare groundwater analytical results to the Surface Water Protection Criteria (SWPC), Additional SWPC (vanadium), Alternative SWPC (arsenic, beryllium, copper, and zinc), and groundwater protection criteria (GWPC). CTDEEP approved the Additional and Alternative SWPC for the subject site in their March 13, 2013 letter (CTDEEP, 2013).

The groundwater data from several previous rounds of sampling have indicated that there is little difference between dissolved and total metals concentrations in groundwater at the Montville site (Shaw, 2010). Therefore, at appropriate wells, such as NRG-MW5, comparison of total metals concentrations to the Water Quality Criteria (WQC) is appropriate to evaluate potential impact to the Bartlett Cove area. This comparison is presented in **Table 4**, and includes both freshwater and saltwater criteria.

The concentrations of metals detected in groundwater samples collected during this reporting period are generally consistent with previous results. The data for June 2016 groundwater results are presented in **Tables 2, 3,** and **4** and include the following exceedances:

 At monitoring well NRG-MW5, where comparison to the GWPC (Table 2) and WQC (Table 4) is appropriate, the concentration of nickel detected in the groundwater sample from June 2016 exceeded the chronic saltwater WQC. The remaining metals were reported at concentrations below the WQC. Detected concentrations were below the GWPC. Concentrations of arsenic detected range from below the detection limit at five wells to 112 micrograms
per liter (ug/l) at AOC12-MW306. The concentrations of arsenic detected in June 2016 exceeded the
Alternative SWPC (10 ug/l) at two (plus one field duplicate) of the 12 wells that were sampled.

Groundwater Results - Annual AOC 9 Engineered Control Groundwater Monitoring

Groundwater monitoring is included as part of the AOC 9 Engineered Control since the low permeable capping is a remedial measure designed to prevent the potential migration of metals impacts from soil in excess of the GA PMC. Details of the groundwater monitoring plan were discussed in the Engineering Control Submittal Part 2 (CB&I, 2013) and the Semi-Annual Site Status Update/Engineered Control and SIP Completion Report (CB&I, 2016b). Annual monitoring will be implemented at up to five monitoring wells: one upgradient well (NRG-MW8), one well in the eastern capped area (NRG-MW3), and three downgradient wells (AOC1-SB2-MW1, MW-11, and MV-6). The samples will be analyzed for the select metals present in soil samples from the capped areas at leachable concentrations greater than the GA PMC (antimony, arsenic, lead, nickel, selenium, and vanadium). The focus of the monitoring is to confirm that the concentrations of COCs in groundwater in the area of AOC 9 comply with the RSRs, or that concentrations of metals in groundwater remain stable.

In June 2016, well NRG-MW3 contained only approximately 1 foot of water and was not sampled as planned during this sampling event. Groundwater analytical results from the June 2016 sampling event are summarized in **Table 2** (GA groundwater area monitoring wells) and **Table 3** (GB groundwater area monitoring wells) with the semi-annual compliance monitoring data. No metals were detected in the samples.

Laboratory Analytical - QA/QC Evaluation

Laboratory analysis completed as part of this assessment was conducted in accordance with CTDEEP's Reasonable Confidence Protocol and the site specific Quality Assurance Project Plan (QAPP). The site specific QAPP was developed for the subject site in accordance with U.S. Environmental Protection Agency (USEPA) guidance (Shaw, 2011). The QAPP presents the requirements and procedures for conducting field sampling activities and investigations at the site so that (1) the data quality objectives specified for this project are met, (2) the field sampling protocols are documented and reviewed in a consistent manner, and (3) scientifically valid and defensible data are collected. Field sampling activities discussed above were completed in general compliance with the QAPP that has been generated for the site.

CB&I requested that laboratory analysis be conducted in accordance with the QAPP and CTDEEP's Reasonable Confidence Protocol (CTDEP, 2007). CB&I performed a data validation review for the laboratory report and documented the results in a data validation worksheet. The data validation worksheet is included with the laboratory reports in **Attachment 1**. This worksheet is consistent with the data quality assessment and data usability evaluations detailed in CTDEEP guidance (CTDEP, 2009)

In general, laboratory analyses were completed in accordance with the site QAPP and CTDEEP's Reasonable Confidence Protocol. However, a few minor quality assurance/quality control (QA/QC) issues, which are summarized in the validation worksheet and laboratory report narrative, were identified. These identified QA/QC issues resulted in some detection limits and reported results being qualified. QA/QC issues noted included:

- The relative percent difference (RPD) of serial dilution samples indicated beryllium, copper, and vanadium were outside control limits. However, the percent difference is considered acceptable due to low initial sample concentration (<50 times instrument detection limit) and no qualification is necessary.
- The RPD of serial dilution sample indicated nickel was outside control limits. However, the percent difference is considered acceptable due to low duplicate and sample concentrations and no qualification is necessary.
- The serial dilution indicates possible matrix interference for zinc; however, no qualification is necessary.

A number of sample results were reported at concentrations less than the reporting limit but greater than the method detection limit. Although this is not specifically a QA/QC issue, the results should be considered estimated and are flagged with a "J". In summary, each of the identified issues had no overall effect on the conclusions drawn from the data, and the data is acceptable for the purposes of this submittal.

ENGINEERED CONTROL INSPECTION AND MAINTENANCE

The Engineered Controls in AOC 3B, AOC 5, AOC 9, and AOC 12 were constructed as reported during the previous reporting period in the Semi-Annual Site Status Update/Engineered Control and SIP Completion Report (CB&I, 2016b). Routine and non-routine inspections will be performed to confirm that the Engineered Controls continue to perform as designed. The first three routine post-construction quarterly inspections were performed on February 6, 2016; June 17, 2016; and October 13, 2016. The inspection reports are provided in **Attachment 2**. Non-routine cap inspections should be performed after major storm events (i.e., approximately 3 inches in a 24-hour period, approximately 2 inches in a 6-hour period, or approximately 1 inch in a 1-hour period). Montville Power performed a non-routine inspection on September 19, 2016, a date with reported total precipitation of 2.19 inches (www.wunderground.com). No impacts, problems, or damage were identified during the inspections and, thus, no repairs were made during this reporting period.

Annual groundwater monitoring for the AOC 9 Engineered Control was performed in June 2016 as discussed earlier in this report. No metals were detected in the samples.

ADDITIONAL ENVIRONMENTAL ACTIVITIES

Additional environmental activities occurring at the site between January and November 2016 are described below:

- Montville Power submitted an Inaccessible Soil Exemption for the soil beneath certain permanent structures at the site (Shaw, 2013). NRG and CB&I respectfully request a response from CTDEEP.
- Montville Power submitted a Remedial Action Plan (RAP) for Groundwater to CTDEEP on February 25, 2016 (CB&I, 2016a). CTDEEP provided comments on the draft and approved publication of the public notice in emails dated April 5, 2016 and April 15, 2016, respectively. The public notice was published in 'The Day' on May 2, 2016. The 45-day public comment period closed June 16, 2016. No public comments were received by CB&I or CTDEEP. Montville Power submitted the Final Groundwater RAP (revisions dated June 16, 2016) to CTDEEP for approval on June 21, 2016. CTDEEP issued a concurrence letter on June 30, 2016 (CTDEEP, 2016).
- Montville Power submitted a Site-Wide RAP dated July 19, 2016 to CTDEEP on August 8, 2016 (CB&I, 2016c). The public notice was published in 'The Day' on August 4, 2016. The 45-day public comment

period closed on September 18, 2016. No public comments were received by CB&I or CTDEEP. Montville Power submitted the Final Site-Wide RAP to CTDEEP for approval on September 27, 2016. CTDEEP accepted the document for achievement of the remedy selection milestone in a letter to USEPA dated September 26, 2016 and indicated that they have no comments on the Site-Wide RAP in an email dated November 30, 2016.

Drilling activities for the Groundwater RAP pilot test commenced on November 14, 2016 and were completed on December 22, 2016. The drilling included installation of 3 EnviroBlend (EB) injection wells, 1 EB injection area monitoring well, and 1 TerraBond-Mg (TB) injection area monitoring well. The pilot test for injection of EB and TB per the Groundwater RAP started immediately following drilling activities and post-injection monitoring will be completed in Spring 2017. Pilot test activities will be reported under separate cover.

SITE SCHEDULE

Outlined below is the site schedule that Montville Power and NRG expect to follow.

Activity	Anticipated Date
Post Construction Engineered Control Inspections	Q4 2016, Q2 & Q4 2017
Compliance Groundwater Monitoring	Q4 2016, Q2 2017 (EC annual)
Groundwater RAP Pilot Test Complete	Q2 2017
ELUR Complete	2017
Groundwater RAP Injections Begin	Q3 2017
Groundwater RAP Completion Report	2022

NRG and Montville Power will continue to provide updates on the status of response actions at the subject site on a semi-annual basis as requested by CTDEEP. Plans, submittals, and reports will be copied to the USEPA.

If you have any questions regarding this letter or any other site matter, please do not hesitate to call me at 617-589-6143.

Sincerely,

Andrew D. Walker, LEP, LSP

Project Manager

CB&I Environmental and Infrastructure, Inc.

Phone: 617-589-6143

E-mail Address: Andrew.Walker@CBI.com

Enclosures:

Tables

Table 1 - Groundwater Gauging Data – June 2016

- Table 2 Groundwater Analytical Results GA Area January June 2016
- Table 3 Groundwater Analytical Results GB Area January June 2016
- Table 4 Groundwater Analytical Results NRG-MW5 Total Metals Compared to WQC

Figures

Figure 1 - Site Plan

Attachments

Attachment 1 - Laboratory Analytical Reports for Groundwater with Data Validation Worksheet Attachment 2 - Engineered Control Inspection Reports

cc: Mr. Ian Cambridge, Montville Power LLC (hard copy and electronic)

Mr. Robert Spooner, NRG (electronic only)

Mr. Juan Perez, USEPA (electronic only)

REFERENCES

- CB&I, 2013. Engineering Control Submittal Part 2. Montville Electric Generating Station, Montville, Connecticut. February 2013.
- CB&I, 2016a. Remedial Action Plan for Groundwater, Montville Electric Generating Station, Montville, Connecticut. CB&I Environmental and Infrastructure, Inc. February 25, 2016 (revisions dated June 16, 2016).
- CB&I, 2016b. Semi-Annual Site Status Update/Engineered Control and SIP Completion Report, Montville Generating Station, Montville, Connecticut. CB&I Environmental and Infrastructure, Inc. April 8, 2016.
- CB&I, 2016c. Site Wide Remedial Action Plan, Montville Generating Station, Montville, Connecticut. CB&I Environmental and Infrastructure, Inc. July 19, 2016.
- CTDEP, 2007. Laboratory Quality Assurance and Quality Control Guidance, Reasonable Confidence Protocols Guidance Document. Connecticut Department of Environmental Protection. November 2007.
- CTDEP, 2009. Laboratory Quality Assurance and Quality Control, Data Quality Assessment and Data Usability Evaluation. Connecticut Department of Environmental Protection. May 2009.
- CTDEEP, 2013. Request for Criteria for Additional Polluting Substances and Alternative Criteria, Montville Station, 74 Lathrop Road, Montville. Connecticut Department of Energy & Environmental Protection. March 13, 2013.
- CTDEEP, 2016. Groundwater Remedial Action Plan, Montville Station, 74 Lathrop Road, Montville, REM ID 4204. June 30, 2016
- Shaw, 2010. Semi-annual Site Status Update and Schedule Adjustment Request, Montville Generating Station, Montville, Connecticut. Shaw Environmental, Inc. February 17, 2010.
- Shaw, 2011. Quality Assurance Project Plan, NRG Montville Generating Station. Shaw Environmental, Inc. March 2008, Revised August 2011.
- Shaw, 2013. Notice of Inaccessible Soil Exemptions, Montville Generating Station, Montville, Connecticut. Shaw Environmental, Inc. April 30, 2013.

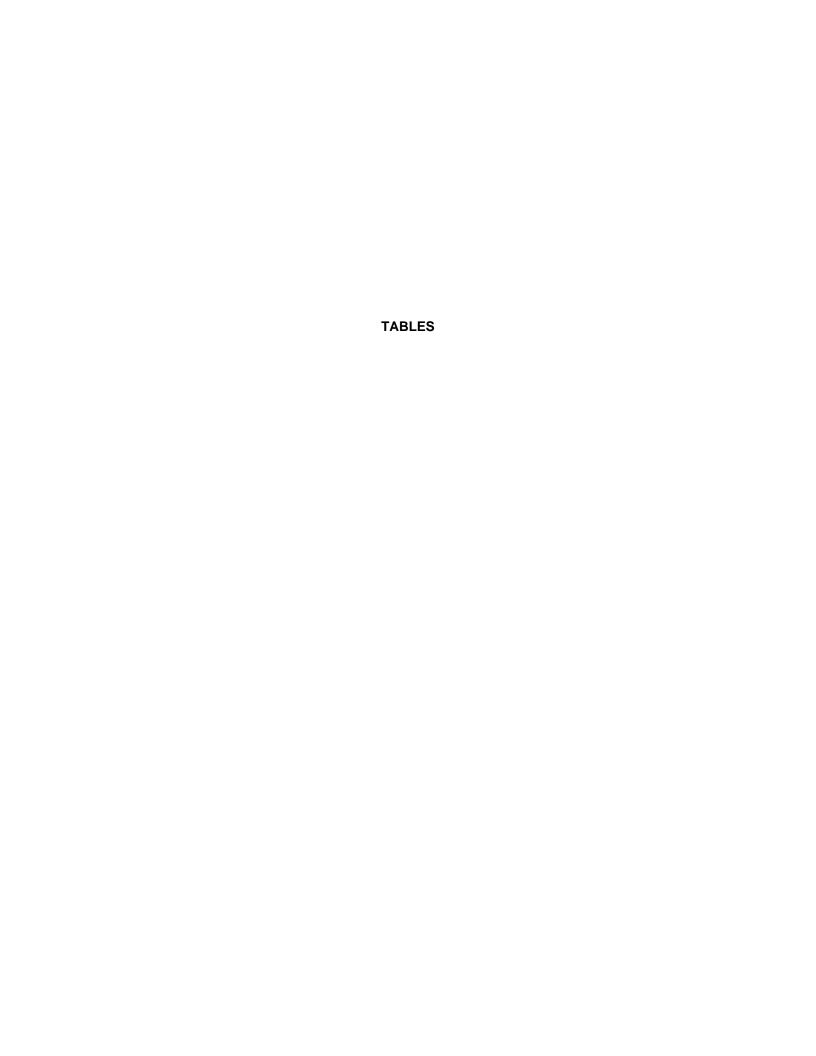


TABLE 1 **GROUNDWATER GAUGING DATA** (06/16/16 - 06/17/16)

Montville Power LLC 74 Lathrop Road Montville, Connecticut

Location	Date	Reference Elevation (Feet)	Depth to Water (Feet)	Depth to LNAPL (Feet)	LNAPL Thickness (Feet)	Groundwater Elevation (Feet)	Notes
AOC1-SB2-MW-1	06/16/16	9.53	3.50			6.03	DTB = 9.88'
AOC12-MW-301	06/17/16	14.44	11.62			2.82	DTB = 18.47'
AOC12-MW-302	06/17/16	10.85	6.58			4.27	DTB = 14.16'
AOC12-MW-305	06/16/16	13.57	11.13			2.44	DTB = 17.98'
AOC12-MW-306	06/17/16	13.82	11.68			2.14	DTB = 18.95'
AOC3-SB1-MW-1	06/17/16	10.04	7.65			2.39	DTB = 14.70'
AOC3-SB4-MW-2	06/16/16	6.51	4.44			2.07	DTB = 12.04'
MV-06	06/16/16	12.26	8.13			4.13	DTB = 18.54'
MW-11	06/17/16	13.41	6.37			7.04	DTB = 15.88'
NRG-MW-05	06/16/16	10.59	10.58			0.01	DTB = 20.35'
NRG-MW-07	06/16/16	8.05	6.99			1.06	DTB = 17.30'
NRG-MW-08	06/17/16	44.31	31.72			12.59	DTB = 40.30'

Notes: -- = Not Detected

<0.01 = Trace amount LNAPL detected

NA = Not Available

NM = Not Measured

DTB = Depth to Bottom

Table 2 Groundwater Analytical Results GA Area January to June 2016

Montville Power LLC Montville, CT

		GWPC	NRG-MW-05 6/16/2016	NRG-MW-08 6/17/2016
Metals (Total)		GWPC	0/10/2010	0/17/2016
, ,		_		
Antimony	(ug/l)	6		<6.0
Arsenic	(ug/l)	10	4.7	<4.0
Beryllium	(ug/l)	4	0.097BJ	
Copper	(ug/l)	1300	0.53BJ	
Lead	(ug/l)	15		<5.0
Nickel	(ug/l)	100	9.7	<40
Selenium	(ug/l)	50		<10
Vanadium	(ug/l)	50	7.9BJ	<10
Zinc	(ug/l)	5000	28.9	
Field Parameters				
рН		NE	5.11	6.29
ORP	(mv)	NE	78.7	60.6
Dissolved Oxygen	(mg/l)	NE	0.56	3.66
Specific Conductivity	(ms/cm)	NE	0.151	0.232
Temperature	(deg.C)	NE	13.38	12.88
Turbidity	(ntu)	NE	0.5	0.4

Notes:

GWPC = Groundwater Protection Criteria

--- = Constituent not analyzed for.

NE = None Established.

ug/L = micrograms per liter

mg/L = milligrams per liter

mS/cm = milliseimens per centimeter

deg. C = degrees celcius

mV = millivolts

ntu = nephelometric turbidity unit

- J = Analyte less than reporting limit (RL), but greater than Instrument Detection Limit or Method Detection Limit (Organics) or estimated based on data validation
- B = Analyte less than reporting limit (RL), but greater than Instrument Detection Limit or Method Detection Limit (Inorganics)

All results have been validated.

Table 3 Groundwater Analytical Results GB Area January to June 2016

Montville Power LLC Montville, CT

		SWPC	AOC1-SB2-MW-1	AOC12-MW-301	AOC12-MW-302	AOC12-MW-305	AOC12-MW-306	AOC12-MW-306	AOC3-SB1-MW-1	AOC3-SB4-MW-2	MV-06	MW-11	NRG-MW-07
		or Alt/Add	6/16/2016	6/17/2016	6/17/2016	6/16/2016	6/16/2016	6/16/2016	6/17/2016	6/16/2016	6/16/2016	6/17/2016	6/16/2016
CONSTITUENT	UNITS	SWPC (1)	Primary	Primary	Primary	Primary	Primary	Duplicate 1	Primary	Primary	Primary	Primary	Primary
Metals(Total)													
Antimony	(ug/l)	86000	<6.0								<6.0	<6.0	
Arsenic	(ug/l)	10 (1)	<4.0	<4.0	<4.0	{29.4}	{112}	{107}	6.8	4.6	<4.0	<4.0	8.6
Beryllium	(ug/l)	20 (1)		<4.0	<4.0	<4.0	<4.0	<4.0	5.2	<4.0	<4.0		<4.0
Copper	(ug/l)	310 (1)		<25	<25	<25	<25	<25	55.5	<25	<25		<25
Lead	(ug/l)	810 (1)	<5.0								<5.0	<5.0	
Nickel	(ug/l)	880	<40	54.7	<40	<40	<40	<40	139	<40	<40	47.6	<40
Selenium	(ug/l)	50	<10								<10	<10	
Vanadium	(ug/l)	4400 (1)	<10	<10	<10	<10	109	106	11.4	<10	<10	<10	<10
Zinc	(ug/l)	810 (1)		67.4	52.8	22.7	96	73.7	268	20.6	<20		191
Field Parameters													
pН		NE	4.55	2.92	2.06	5.81	3.63		3.22	5.56	5.11	3.07	5.97
ORP	(mV)	NE	166.9	378.4	216.5	-26.1	221.5		447.8	6.3	170.8	195	-38
Dissolved Oxygen	(mg/l)	NE	4.55	0.26	0.19	0.47	0.15		0.39	0.58	2.6	5.94	0.7
Specific Conductivity	(mS/cm)	NE	0.26	0.869	0.118	0.415	0.413		2.416	0.212	0.174	0.244	2.084
Temperature	(deg.C)	NE	16.93	16.18	17.41	14.68	16.29		16.45	15.32	12.6	15.51	17.78
Turbidity	(ntu)	NE	0.4	0.4	0.4	0.4	0.6		0.3	0.6	0.2	0.3	0.4

Notes:

SWPC = Surface Water Protection Criteria

--- = Constituent not analyzed for.

NE = None Established.

(1)= Approved Alternative and Additional SWPC in March 13, 2013 CTDEEP letter

{Red Highlight} = Result is above appropriate SWPC

ug/L = micrograms per liter

mg/L = milligrams per liter

mS/cm = milliseimens per centimeter

deg. C = degrees celcius

ntu = nephelometric turbidity unit
All results have been validated.

Table 4

Groundwater Analytical Results

NRG-MW5 Total Metals Compared to WQC

Montville Power LLC Montville, Connecticut

	Chronic WQC	Chronic WQC	NRG-MW-05									
Constituent (ug/L)	Fresh	Salt	9/26/2011	9/28/2012	5/8/2013	3/11/2014	6/11/2014	9/26/2014	12/5/2014	5/28/2015	12/4/2015	6/16/2016
Arsenic	150	36	1.8BJ	2.1BJ	<2.9	4.9	4.3	8.3	9.4	6.3	8.1J	4.7
Beryllium	NE	NE	<0.24	<0.28	<0.25	0.084BJ	0.093BJ	0.098BJ	0.055BJ	0.083BJ	0.067BJ	0.097BJ
Copper	4.8	3.1	<2.5	{3.2}BJ	<7.0	<0.89	<0.89	1.7BJ	0.61BJ	<1.0	<1.0	0.53BJ
Nickel	28.9	8.2	{9.9}BJ	{9.0}BJ	{11.5}BJ	{9.5}	{9.1}	{12.6}	{10.3}	{9.4}	{10.2}J	{9.7}
Vanadium	NE	NE	<1.5	1.5BJ	<2.8	4	3.3BJ	4.3	4.8	5.9BJ	6.3BJ	7.9BJ
Zinc	65	81	25.3	<23.7U	<23.3U	<18.9U	<15.1U	19.7	<15.6U	<18.0U	<17.2U	28.9

Notes:

WQC = Numerical Water Quality Criteria for Chemical Constituents.

ug/L = micrograms per liter.

B = Less than detection limit (inorganics), lab qualifier.

J - Less than detection limit, validation qualifier.

U = Result determined to be non-detect at indicated detection limit, based on validation protocol.

{Red Highlight} = Result is greater than WQC Chronic Fresh or WQC Chronic Salt.

NE = None established.

All results have been validated.



ATTACHMENT 1
LABORATORY ANALYTICAL REPORTS FOR GROUNDWATER WITH DATA VALIDATION WORKSHEE

Data Usability Worksheet

NRG Montville Job Number : 1009644013 Project Name:

Prepared By: Cathy Joe Mainville Date: 7/6/2016 Validated By: Kim Napier Date: 9/13/2016

Matrix: Groundwater

Analytical Method: EPA 6010C Analyte Group: Select metals Low Level Metals

EPA 6020

Completed RCP Certification Form included: Yes Laboratory ID No.: MC46508

MC46508A

Chain of Custody included in Data Package ?Yes Is it Complete ? Yes

		Time for	Holding Time	
Sample Collection Date	Analysis	extraction	for analysis	Analysis Date
	EPA 6020 (Low Level			
6/16/2016	Metals)	180 Days	180 Days	6/27/16
6/16/2016-6/17/2016	EPA 6010C (METALS)	180 Days	180 Days	6/24/16

Sample temperature within QC limits: Yes, 0.6 °C

Surrogate Recovery

Are all % recoveries within the allowable range? NA

If No, List sample ID where range was exceeded: N/A

Are all MS/MSD sample recoveries within the QC limits?

If No, list sample ID, date and compound where limit was excN/A

Laboratory Control Samples

Are all laboratory control sample recoveries within the QC lin Yes

If no, list sample ID where range was exceeded:

Equipment Field Blank ID: **EQUIPMENT BLANK** 6/16/2016

Trip Blank ID: N/A

Method Blank: 6/23/16, 6/24/2016

Were any compounds identified in the method blank, field blank or trip blank above detection limits? Nο

If so, list Sample ID/Compound/Concentration/Units:

Notes:

Batch ID: MP26448

Sample(s) MC46508-1MS, MC46508-1MSD, MC46508-1SDL were used as the QC samples for metals.

RPD(s) for Serial Dilution for Beryllium, Copper are outside control limits for sample MP26448-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Batch ID: MP26454

Sample(s) MC46569-1SDL were used as the QC samples for metals.

RPD(s) for Serial Dilution for Beryllium, Vanadium are outside control limits for sample MP26454-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

MP26454-SD1 for Nickel: Serial Dilution RPD acceptable due to low duplicate and sample concentrations.

MP26454-SD1 for Zinc: Serial dilution indicates possible matrix interference.

Reviewed By: Kim Napier



07/05/16

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.



e-Hardcopy 2.0
Automated Report

Technical Report for

CB&I

NRG Montville Lathrop Road, Montville, CT 1009644013 PO#112003

SGS Accutest Job Number: MC46508

Sampling Dates: 06/16/16 - 06/17/16

Report to:

vallerie.sasso@cbi.com

ATTN: Distribution6

Total number of pages in report: 41



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

H. (Brad) Madadian Lab Director

Client Service contact: Frank DAgostino 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

This report shall not be reproduced, except in its entirety, without the written approval of SGS Accutest. Test results relate only to samples analyzed.

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Sample Summary

CB&I

Job No: MC46508

NRG Montville Lathrop Road, Montville, CT Project No: 1009644013 PO#112003

Sample Number	Collected Date	Time By	Received	Matri Code		Client Sample ID
MC46508-1	06/16/16	08:40 DL	06/21/16	AQ	Ground Water	AOC12-MW305
MC46508-2	06/16/16	13:05 DL	06/21/16	AQ	Ground Water	NRG-MW7
MC46508-3	06/16/16	11:35 DL	06/21/16	AQ	Ground Water	AOC3-SB4-MW2
MC46508-4	06/16/16	10:20 DL	06/21/16	AQ	Ground Water	AOC12-MW306
MC46508-5	06/16/16	10:20 DL	06/21/16	AQ	Ground Water	AOC12-MW306 DUP
MC46508-6	06/17/16	11:25 DL	06/21/16	AQ	Ground Water	AOC12-MW301
MC46508-7	06/17/16	09:25 DL	06/21/16	AQ	Ground Water	AOC3-SB1-MW1
MC46508-8	06/17/16	12:30 DL	06/21/16	AQ	Ground Water	AOC12-MW-302
MC46508-9	06/16/16	07:50 DL	06/21/16	AQ	Equipment Blank	EQUIPMENT BLANK
MC46508-11	06/17/16	08:30 DL	06/21/16	AQ	Ground Water	NRG-MW8
MC46508-12	06/16/16	10:40 DL	06/21/16	AQ	Ground Water	AOC1-SB2-MW1
MC46508-13	06/17/16	13:45 DL	06/21/16	AQ	Ground Water	MW-11
MC46508-14	06/16/16	09:40 DL	06/21/16	AQ	Ground Water	MV-6

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CB&I Job No MC46508

Site: NRG Montville Lathrop Road, Montville, CT Report Date 7/5/2016 8:07:06 AM

13 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on between 06/16/2016 and 06/17/2016 and were received at SGS Accutest New England on 06/21/2016 properly preserved, at 0.6 Deg. C and intact. These Samples received a job number of MC46508. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Metals By Method SW846 6010C

Matrix: AQ Batch ID: MP26448

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC46508-1MS, MC46508-1MSD, MC46508-1SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Beryllium, Copper are outside control limits for sample MP26448-SD1. Percent difference
 acceptable due to low initial sample concentration (< 50 times IDL).
- Only selected metals requested.

SGS Accutest New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Laboratory Director for SGS Accutest New England or assignee as verified by the signature on the cover page has authorized the release of this report(MC46508).



Summary of Hits Job Number: MC46508 CB&I Account:

Project: NRG Montville Lathrop Road, Montville, CT

Collected: 06/16/16 thru 06/17/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC46508-1	AOC12-MW305					
Arsenic Zinc		29.4 22.7	4.0 20		ug/l ug/l	SW846 6010C SW846 6010C
MC46508-2	NRG-MW7					
Arsenic Zinc		8.6 191	4.0 20		ug/l ug/l	SW846 6010C SW846 6010C
MC46508-3	AOC3-SB4-MW2					
Arsenic Zinc		4.6 20.6	4.0 20		ug/l ug/l	SW846 6010C SW846 6010C
MC46508-4	AOC12-MW306					
Arsenic Vanadium Zinc		112 109 96.0	4.0 10 20		ug/l ug/l ug/l	SW846 6010C SW846 6010C SW846 6010C
MC46508-5	AOC12-MW306 D	OUP				
Arsenic Vanadium Zinc		107 106 73.7	4.0 10 20		ug/l ug/l ug/l	SW846 6010C SW846 6010C SW846 6010C
MC46508-6	AOC12-MW301					
Nickel Zinc		54.7 67.4	40 20		ug/l ug/l	SW846 6010C SW846 6010C
MC46508-7	AOC3-SB1-MW1					
Arsenic Beryllium Copper Nickel Vanadium Zinc		6.8 5.2 55.5 139 11.4 268	4.0 4.0 25 40 10 20		ug/l ug/l ug/l ug/l ug/l ug/l	SW846 6010C SW846 6010C SW846 6010C SW846 6010C SW846 6010C SW846 6010C
MC46508-8	AOC12-MW-302					
Zinc		52.8	20		ug/l	SW846 6010C

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50 2 01 2

Summary of Hits Job Number: MC46508 **Account:** CB&I

Project: NRG Montville Lathrop Road, Montville, CT

Collected: 06/16/16 thru 06/17/16

Lab Sample ID Client Sample ID Result/
Analyte Qual RL MDL Units Method

MC46508-9 EQUIPMENT BLANK

No hits reported in this sample.

MC46508-11 NRG-MW8

No hits reported in this sample.

MC46508-12 AOC1-SB2-MW1

No hits reported in this sample.

MC46508-13 MW-11

Nickel 47.6 40 ug/l SW846 6010C

MC46508-14 MV-6

No hits reported in this sample.

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ACCUTEST

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Section 4

Sample Results		
Report of Analysis		
Report of Allarysis		

Report of Analysis

Client Sample ID: AOC12-MW305

Lab Sample ID: MC46508-1

Matrix: AQ - Ground Water

Date Sampled: 06/16/16 **Date Received:** 06/21/16 **Percent Solids:** n/a

Project: NRG Montville Lathrop Road, Montville, CT

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	29.4	4.0	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Beryllium	< 4.0	4.0	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Copper	< 25	25	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Nickel	< 40	40	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Vanadium	< 10	10	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Zinc	22.7	20	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²



Report of Analysis

Client Sample ID: NRG-MW7 Lab Sample ID: MC46508-2 **Date Sampled:** 06/16/16 Matrix: AQ - Ground Water **Date Received:** 06/21/16 Percent Solids: n/a

Project: NRG Montville Lathrop Road, Montville, CT

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	8.6	4.0	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Beryllium	< 4.0	4.0	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Copper	< 25	25	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Nickel	< 40	40	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Vanadium	< 10	10	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Zinc	191	20	ug/l	1	06/23/16	06/24/16 Eal	SW846 6010C ¹	SW846 3010A ²

(1) Instrument QC Batch: MA19269 (2) Prep QC Batch: MP26448

RL = Reporting Limit

Report of Analysis

 Client Sample ID:
 AOC3-SB4-MW2

 Lab Sample ID:
 MC46508-3
 Date Sampled:
 06/16/16

 Matrix:
 AQ - Ground Water
 Date Received:
 06/21/16

Project: NRG Montville Lathrop Road, Montville, CT

Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	4.6	4.0	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Beryllium	< 4.0	4.0	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Copper	< 25	25	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Nickel	< 40	40	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Vanadium	< 10	10	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Zinc	20.6	20	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²

4

Report of Analysis

Client Sample ID: AOC12-MW306

Lab Sample ID: MC46508-4

Matrix: AQ - Ground Water

Date Sampled: 06/16/16

Percent Solids: n/a

Project: NRG Montville Lathrop Road, Montville, CT

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	112	4.0	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Beryllium	< 4.0	4.0	ug/l	1	06/23/16	06/24/16 Eal	SW846 6010C ¹	SW846 3010A ²
Copper	< 25	25	ug/l	1	06/23/16	06/24/16 Eal	SW846 6010C ¹	SW846 3010A ²
Nickel	< 40	40	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Vanadium	109	10	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Zinc	96.0	20	ug/l	1	06/23/16	06/24/16 Eal	SW846 6010C ¹	SW846 3010A ²

Report of Analysis

Client Sample ID: AOC12-MW306 DUP

Lab Sample ID:MC46508-5Date Sampled:06/16/16Matrix:AQ - Ground WaterDate Received:06/21/16Percent Solids:n/a

Project: NRG Montville Lathrop Road, Montville, CT

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	107	4.0	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Beryllium	< 4.0	4.0	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Copper	< 25	25	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Nickel	< 40	40	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Vanadium	106	10	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Zinc	73.7	20	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²

(1) Instrument QC Batch: MA19269

(2) Prep QC Batch: MP26448

Report of Analysis

 Client Sample ID:
 AOC12-MW301

 Lab Sample ID:
 MC46508-6
 Date Sampled:
 06/17/16

 Matrix:
 AQ - Ground Water
 Date Received:
 06/21/16

 Percent Solids:
 n/a

Project: NRG Montville Lathrop Road, Montville, CT

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	< 4.0	4.0	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Beryllium	< 4.0	4.0	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Copper	< 25	25	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Nickel	54.7	40	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Vanadium	< 10	10	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Zinc	67.4	20	ug/l	1	06/23/16	06/24/16 Eal	SW846 6010C ¹	SW846 3010A ²



Report of Analysis

Client Sample ID: AOC3-SB1-MW1 Lab Sample ID: **Date Sampled:** 06/17/16 MC46508-7 Matrix: **Date Received:** 06/21/16 AQ - Ground Water Percent Solids: n/a

Project: NRG Montville Lathrop Road, Montville, CT

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	6.8	4.0	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Beryllium	5.2	4.0	ug/l	1	06/23/16	06/24/16 Eal	SW846 6010C ¹	SW846 3010A ²
Copper	55.5	25	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Nickel	139	40	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Vanadium	11.4	10	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Zinc	268	20	ug/l	1	06/23/16	06/24/16 Eal	SW846 6010C ¹	SW846 3010A ²

Report of Analysis

Client Sample ID: AOC12-MW-302 Lab Sample ID: MC46508-8

Lab Sample ID:MC46508-8Date Sampled:06/17/16Matrix:AQ - Ground WaterDate Received:06/21/16Percent Solids:n/a

Project: NRG Montville Lathrop Road, Montville, CT

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	< 4.0	4.0	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Beryllium	< 4.0	4.0	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Copper	< 25	25	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Nickel	< 40	40	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Vanadium	< 10	10	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Zinc	52.8	20	ug/l	1	06/23/16	06/24/16 Eal	SW846 6010C ¹	SW846 3010A ²

(1) Instrument QC Batch: MA19269

(2) Prep QC Batch: MP26448

Report of Analysis

Client Sample ID: EQUIPMENT BLANK

Lab Sample ID:MC46508-9Date Sampled:06/16/16Matrix:AQ - Equipment BlankDate Received:06/21/16Percent Solids:n/a

Project: NRG Montville Lathrop Road, Montville, CT

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Arsenic	< 4.0	4.0	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Beryllium	< 4.0	4.0	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Copper	< 25	25	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Lead	< 5.0	5.0	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Nickel	< 40	40	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Selenium	< 10	10	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Vanadium	< 10	10	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Zinc	< 20	20	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²

(1) Instrument QC Batch: MA19269

(2) Prep QC Batch: MP26448

Report of Analysis

Client Sample ID: NRG-MW8

Lab Sample ID: MC46508-11

Matrix: AQ - Ground Water

Date Sampled: 06/17/16

Percent Solids: n/a

Project: NRG Montville Lathrop Road, Montville, CT

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Arsenic	< 4.0	4.0	ug/l	1	06/23/16	06/24/16 Eal	SW846 6010C ¹	SW846 3010A ²
Lead	< 5.0	5.0	ug/l	1	06/23/16	06/24/16 Eal	SW846 6010C ¹	SW846 3010A ²
Nickel	< 40	40	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Selenium	< 10	10	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Vanadium	< 10	10	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²

Report of Analysis

Client Sample ID: AOC1-SB2-MW1 Lab Sample ID: **Date Sampled:** 06/16/16 MC46508-12 Matrix: **Date Received:** 06/21/16 AQ - Ground Water

Project: NRG Montville Lathrop Road, Montville, CT

Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Arsenic	< 4.0	4.0	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Lead	< 5.0	5.0	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Nickel	< 40	40	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Selenium	< 10	10	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Vanadium	< 10	10	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²

(1) Instrument QC Batch: MA19269 (2) Prep QC Batch: MP26448

RL = Reporting Limit

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Report of Analysis

Client Sample ID: MW-11

Lab Sample ID: MC46508-13

Matrix: AQ - Ground Water

Date Sampled: 06/17/16

Percent Solids: n/a

Project: NRG Montville Lathrop Road, Montville, CT

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Arsenic	< 4.0	4.0	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Lead	< 5.0	5.0	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Nickel	47.6	40	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Selenium	< 10	10	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Vanadium	< 10	10	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²

Report of Analysis

Client Sample ID: MV-6

Lab Sample ID: MC46508-14 **Date Sampled:** 06/16/16 Matrix: **Date Received:** 06/21/16 AQ - Ground Water Percent Solids: n/a

Project: NRG Montville Lathrop Road, Montville, CT

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Arsenic	< 4.0	4.0	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Beryllium	< 4.0	4.0	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Copper	< 25	25	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Lead	< 5.0	5.0	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Nickel	< 40	40	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Selenium	< 10	10	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Vanadium	< 10	10	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²
Zinc	< 20	20	ug/l	1	06/23/16	06/24/16 EAL	SW846 6010C ¹	SW846 3010A ²

(1) Instrument QC Batch: MA19269 (2) Prep QC Batch: MP26448

RL = Reporting Limit



Section 5

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- · Chain of Custody
- RCP Form
- Sample Tracking Chronicle
- QC Evaluation: CT RCP Limits



A		JT	E	S	T.
		9.0			

Accutest Laboratories of New England 495 Technology Center West, Building One TEL. 508-481-6200 FAX: 508-481-7753 MC 46508 www.accutest.com Requester dipalysis (see TEST CODE sheet) Client / Reporting Information Project Information Matrix Codes CB&I Environmental NRG Montville OW - Direkting Water GW - Ground Waster WW - Water SW - Surface Water SO - Soil SL - Sudge SEO-Sedment OI - Oil LIQ - Cliter Liquid AIR - Air SOL - Other Said WP - Wilde FB-Field Blank EB - Equipment Blank TB- Rince Blank Lathrop Rd. 150 Royall Street Billing Information (If different from Report to) Canton, MA 02021 Uncasville, CT 325 Street Address Andrew.Walker@cbi.com 1009644013 4 4 4 2 617-589-6143 112003 Daniel Leahy 617-212-8276 Andrew Walker Field ID / Point of Collection MEOH/DI Vişi k LAB USE ONLY DL GW AOC12-MW305 6/16/16 0840 Detection limits 6/16/16 1305 NRG-MWT must meet GA incorrect 3 AOC3-SB4-MW2 B/16/16 1135 GWPC and CT abbreviation 'An' 4 AOCIZ-MW306 6/16/16 1020 wqc. should be 'Sb' for AOC12- MW306 DU 6/16/16 1020 antimony 40C12- MW301 6/12/16 1125 11 7 1003-3BI-MWI 6/17/16/0925 -8 6/17/16 1230 1 40C12-MW302 a OPARO- ERUIPMENT BUNK LW 6/16/16 0750 6/16/16 1445 V 10 NRG-MWS Data Deliverable Infor Comments / Special Instructions
CTDSP REP + 5172 57301FIC QARI Turnaround Time (Business days) Approved By (Accutest PM): / Date: Commercial "A" (Level 1) NYASP Category A
NYASP Category B Commercial "B" (Level 2) CT SANDARDS ANDWARR QUALIT Std. 5 Business Days (By Contract only) FULLT1 (Level 3+4) State Ferres CT RCP 5 Day RUSH EDD Format GISKA CRITIFIED POR WILL MUS, 12 EFFOR 3 Day EMERGENCY PERSONA TO MOLON SEPTRATE AGARD 2 Day EMERGENCY Commercial "A" = Results Only 1 Day EMERGENCY Commercial "B" = Results + QC Summary Sample Custody must be documented below each time samples change possession, including courier delivery. 0630 Date Time: 6/18/16 Date Time:

Custody Seal #

MC46508: Chain of Custody Page 1 of 5

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ACCUTEST:	495 Technolog	aboratories of New E gy Center West, Buil	ilding One	Rong #	Boths Order Control a			
		1-6200 FAX: 508-4 ww.accutest.com	481-7753 Accutest Quel	ie# %	MY CUISON			
Client / Reporting Information	Proj	ject Information	Ly Ri	equested Analysis (see	TEST CODE sheet) Matrix Codes			
CB&I Environmental	Project Name	Secretaria de la constanta de	18	W.				
Street Address	NRG Montville	Francisco de la constantina della constantina de		1 27	DW - Drinking Wast GW - Ground Wate			
150 Royall Street	Lathrop Rd.	Billing Informati	ion (If different from Report to)	1/4/2	VVV - Water SW - Surface Water			
Clty State Zip Canton, MA 02021 Project Contact E-mail	Uncasville, CT	Company Name Street Address	200	9 67	SC - Sed St - Studge SEO -Sediment Ot - Ot			
Andrew Walker 617-589-6143		Street Address	135 4	3 65	LFQ - Other Liquid			
Phone # Fax#	Client PO#	City	State Zip	100	SOL - Other Solid			
617-589-6143	112003			2 60	VVP - Wipe FB-하eld Blank			
Sampler(s) Name(s) Phone #	Project Manager	Attention:	PO# 2	1 102	68- Equipment Black RB- Rinse Black			
Daniel Leahy 617-212-8276	Andrew Walker		- 5 7 5	1 104	. TB-Trip Wank			
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Accutest Sample # Field ID / Point of Collection	MEOHIOI Vial # Oaks Type	Sampled Mains # of lookie	HOI	4 6.2	LAB USE ONLY			
-11 NRG-NW8	6/17/16 0830	DC GW/			incorrect			
-12 ACCI-SB2-MWI	6/16/16 1040	DL 1 1			abbreviation 'An'			
-3 MW-11	6/17/16 1345	DL 1	incorrect		should be 'Sb' for			
-14 MV-6	6/16/16 0940	OL VI	abbreviation	1001	antimony.			
			should be 'Si	VII H	JTTÍTTT			
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				1 1 1	zinc.			
		- Composition of Control Contr	a Deliverable Information	Comm	nents / Special Instructions			
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MC46508: Chain of Custody

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MC46508: Chain of Custody

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Project Contact E-mail	Project#			Street	Address							4	125	3	16	1	- 1]			OI - Oil LIQ - Other Liqui	
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MC46508: Chain of Custody

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SGS Accutest Sample Receipt Summary

Job Number: MC4	46508 Clien	t: CBI	Project: NRG MONTVI	LLE
Date / Time Received: 6/21	1/2016 5:25:00 PM	Delivery Method:	SGS Airbill #'s:	
Cooler Temps (Initial/Adjuste	ed): #1: (0.6/0.6);			
Cooler Security 1. Custody Seals Present: 2. Custody Seals Intact: Cooler Temperature 1. Temp criteria achieved: 2. Thermometer ID: 3. Cooler media: 4. No. Coolers: Quality Control Preservation 1. Trip Blank present / cooler: 2. Trip Blank listed on COC: 3. Samples preserved properly: 4. VOCs headspace free: Comments	4. Smpl Da Y or N IRGUN1; Ice (Bag) 1 Y or N N/]	Sample Integrity - Documentation 1. Sample labels present on bottles: 2. Container labeling complete: 3. Sample container label / COC agree: Sample Integrity - Condition 1. Sample recvd within HT: 2. All containers accounted for: 3. Condition of sample: Sample Integrity - Instructions 1. Analysis requested is clear: 2. Bottles received for unspecified tests 3. Sufficient volume recvd for analysis: 4. Compositing instructions clear: 5. Filtering instructions clear:	Y or N Y or N Y or N Intact Y or N N/A Y O N N/A Y O N N/A

MC46508: Chain of Custody

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Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form

Laboratory Name: Accutest New England Client: CB&I

Project Location: NRG Montville Lathrop Road, Montville, Project Number: 1009644010 PO#

CT

Sampling Date(s): 6/16/2016

Laboratory Sample ID(s): MC46508-1, MC46508-2, MC46508-3, MC46508-4, MC46508-5, MC46508-6, MC46508-7, MC46508-8, MC46508-9, MC46508-11, MC46508-12, MC46508-13, MC46508-14

Methods: SW846 6010C For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method- Yes No 🗆 1 specific Reasonable Confidence Protocol documents)? Yes 🔽 No 🔲 Where all the method specified preservation and holding time requirements met? 1A No \square Yes 🔲 1B VPH and EPH mehods only: Was the VPH or EPH method conducted without significant modifications (See section 11.3 of respective methods) NA 🗹 Were all samples received by the laboratory in a condition consistent with 2 Yes 🔽 No 🔲 that described on the associated chain-of-custody document(s)? 3 Were samples received at an appropriate temperature (<6° C)? Yes 🗹 No Were all QA/QC performance criteria specified in the CTDEP Reasonable Yes 🔽 No \square Confidence Protocol documents achieved? Yes 🔽 5 a) Were reporting limits specified or referenced on the chain-of-custody? Yes 🔽 No 🗖 b) Were these reporting limits met? For each analytical method referenced in this laboratory report package, Yes 🗖 No 🗹 6 were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents? Are project-specific matrix spikes and laboratory duplicates included in this Yes 🗖 No 🗹 data set?

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized

Signature: Holdsher Position: Lab Director

Printed Name: H. (Brad) Madadian Date: 7/5/2016

Accutest New England



Internal Sample Tracking Chronicle

CB&I

Job No: MC46508

NRG Montville Lathrop Road, Montville, CT Project No: 1009644013 PO#112003

Sample Number	Method	Analyzed	Ву	Prepped	Ву	Test Codes
MC46508-1 AOC12-MV	Collected: 16-JUN-16 (V305	08:40 By: DL	Receiv	ed: 21-JUN-	16 By:	NT
MC46508-1	SW846 6010C	24-JUN-16 12:08	EAL	23-JUN-16	EM	AS,BE,CU,NI,V,ZN
MC46508-2 NRG-MW7	Collected: 16-JUN-16 1	3:05 By: DL	Receiv	ed: 21-JUN-	16 By:	NT
MC46508-2	2 SW846 6010C	24-JUN-16 12:23	EAL	23-JUN-16	EM	AS,BE,CU,NI,V,ZN
MC46508-3 AOC3-SB4-	Collected: 16-JUN-16 1 MW2	1:35 By: DL	Receiv	ed: 21-JUN-	16 By:	NT
MC46508-3	SW846 6010C	24-JUN-16 12:28	EAL	23-JUN-16	EM	AS,BE,CU,NI,V,ZN
MC46508-4 AOC12-MV	Collected: 16-JUN-16 1 V306	0:20 By: DL	Receiv	ved: 21-JUN-	16 By:	NT
MC46508-4	SW846 6010C	24-JUN-16 12:43	EAL	23-JUN-16	EM	AS,BE,CU,NI,V,ZN
MC46508-5 AOC12-MV	Collected: 16-JUN-16 1 V306 DUP	0:20 By: DL	Receiv	ed: 21-JUN-	16 By:	NT
MC46508-5	SW846 6010C	24-JUN-16 12:48	EAL	23-JUN-16	EM	AS,BE,CU,NI,V,ZN
MC46508-6 AOC12-MV	Collected: 17-JUN-16 1 V301	1:25 By: DL	Receiv	ed: 21-JUN-	16 By:	NT
MC46508-6	5 SW846 6010C	24-JUN-16 12:53	EAL	23-JUN-16	EM	AS,BE,CU,NI,V,ZN
MC46508-7 AOC3-SB1-	Collected: 17-JUN-16 (MW1	99:25 By: DL	Receiv	ved: 21-JUN-	16 By:	NT
MC46508-7	SW846 6010C	24-JUN-16 12:58	EAL	23-JUN-16	EM	AS,BE,CU,NI,V,ZN
MC46508-8 AOC12-MV	Collected: 17-JUN-16 1 V-302	2:30 By: DL	Receiv	ed: 21-JUN-	16 By:	NT
MC46508-8	S SW846 6010C	24-JUN-16 13:02	EAL	23-JUN-16	EM	AS,BE,CU,NI,V,ZN

Internal Sample Tracking Chronicle

CB&I

Job No: MC46508

NRG Montville Lathrop Road, Montville, CT Project No: 1009644013 PO#112003

Sample Number	Method	Analyzed	Ву	Prepped	Ву	Test Codes
	9 Collected: 16-JUN-16 NT BLANK	07:50 By: DL	Receiv	ved: 21-JUN-	16 By:	NT
MC46508-9	9 SW846 6010C	24-JUN-16 14:03	EAL	23-JUN-16	EM	AS,BE,CU,NI,PB,SB,SE,V,ZN
MC46508-1 NRG-MW8	1 Collected: 17-JUN-16	08:30 By: DL	Receiv	ved: 21-JUN-	16 By:	NT
MC46508-1	1 ISW846 6010C	24-JUN-16 13:12	EAL	23-JUN-16	EM	AS,NI,PB,SB,SE,V
MC46508-1 AOC1-SB2	12Collected: 16-JUN-16 -MW1	10:40 By: DL	Receiv	ved: 21-JUN-	16 By:	NT
MC46508-1	12SW846 6010C	24-JUN-16 13:17	EAL	23-JUN-16	EM	AS,NI,PB,SB,SE,V
MC46508-1 MW-11	13Collected: 17-JUN-16	13:45 By: DL	Receiv	ved: 21-JUN-	16 By:	NT
MC46508-1	13SW846 6010C	24-JUN-16 13:22	EAL	23-JUN-16	EM	AS,NI,PB,SB,SE,V
MC46508-1 MV-6	14Collected: 16-JUN-16	09:40 By: DL	Receiv	ved: 21-JUN-	16 By:	NT
MC46508-1	14SW846 6010C	24-JUN-16 13:27	EAL	23-JUN-16	EM	AS,BE,CU,NI,PB,SB,SE,V,ZN

Page 1 of 1

QC Evaluation: CT RCP Limits Job Number: MC46508

Account: CB&I

Project: NRG Montville Lathrop Road, Montville, CT

Collected: 06/16/16 thru 06/17/16

QC Sample ID	CAS#	Analyte	Sample Result Result Type Type	Units Limits
			Type Type	

No Exceptions found.



^{*} Sample used for QC is not from job MC46508



Section 6

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries



BLANK RESULTS SUMMARY Part 2 - Method Blanks

Login Number: MC46508 Account: FDG - CB&I

Project: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP26448 Matrix Type: AQUEOUS Methods: SW846 6010C Units: ug/l

Prep Date:

06/23/16

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	26	25		
Antimony	6.0	1.8	1.2	1.3	<6.0
Arsenic	4.0	2.8	2	-1.4	<4.0
Barium	50	.5	.57		
Beryllium	4.0	.18	.34	0.0	<4.0
Bismuth	50	3.1	1.8		
Boron	100	1.4	2.3		
Cadmium	4.0	. 2	.3		
Calcium	5000	11	18		
Chromium	10	.57	1.1		
Cobalt	50	. 26	.41		
Copper	25	.55	4.2	0.60	<25
Gold	50	1.2	1.3		
Iron	100	4.7	16		
Lead	5.0	1.1	1.1	-0.30	<5.0
Lithium	500	5.2	1.8		
Magnesium	5000	47	56		
Manganese	15	.051	.41		
Molybdenum	100	1.6	16		
Nickel	40	.34	.35	0.0	<40
Palladium	50	1.8	1.4		
Platinum	50	8.7	4.7		
Potassium	5000	74	78		
Selenium	10	2.8	3.4	-0.20	<10
Silicon	100	15	11		
Silver	5.0	.75	1.4		
Sodium	5000	23	35		
Sulfur	50	3.7	3.3		
Strontium	10	.27	.17		
Thallium	5.0	1.2	1.8		
Tin	100	.52	2.2		
Titanium	50	.54	.99		
Tungsten	100	4	23		
		=			

BLANK RESULTS SUMMARY Part 2 - Method Blanks

Login Number: MC46508 Account: FDG - CB&I

Project: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP26448 Matrix Type: AQUEOUS Methods: SW846 6010C Units: ug/l

Prep Date:

06/23/16

Metal	RL	IDL	MDL	MB raw	final
Vanadium	10	.52	. 4	0.0	<10
Zinc	20	.79	1	2.0	<20
Zirconium	50	.36	2.6		

Associated samples MP26448: MC46508-1, MC46508-2, MC46508-3, MC46508-4, MC46508-5, MC46508-6, MC46508-7, MC46508-8, MC46508-9, MC46508-11, MC46508-12, MC46508-13, MC46508-14

Results < IDL are shown as zero for calculation purposes (*) Outside of QC limits (anr) Analyte not requested

SGS

33 of 41

ACCUTEST

MC46508

Project: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP26448 Methods: SW846 6010C Matrix Type: AQUEOUS Units: ug/l

Prep Date:

06/23/16

Prep Date:				06/23/16	
Metal	MC46508 Origina		Spikelot MPICP7	% Rec	QC Limits
Aluminum					
Antimony	0.0	509	500	101.8	75-125
Arsenic	29.4	531	500	100.3	75-125
Barium					
Beryllium	0.20	489	500	97.8	75-125
Bismuth					
Boron					
Cadmium					
Calcium					
Chromium					
Cobalt					
Copper	3.4	489	500	97.1	75-125
Gold					
Iron	anr				
Lead	0.0	988	1000	98.8	75-125
Lithium					
Magnesium					
Manganese					
Molybdenum					
Nickel	4.6	503	500	99.7	75-125
Palladium					
Platinum					
Potassium					
Selenium	0.0	498	500	99.6	75-125
Silicon					
Silver					
Sodium					
Sulfur					
Strontium					
Thallium					
Tin					
Titanium					
Tungsten					

SGS

34 of 41 ACCUTEST MC46508

Project: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP26448 Methods: SW846 6010C Matrix Type: AQUEOUS Units: ug/l

Prep Date:

Zirconium

06/23/16

Associated samples MP26448: MC46508-1, MC46508-2, MC46508-3, MC46508-4, MC46508-5, MC46508-6, MC46508-7, $\texttt{MC46508-8}, \ \texttt{MC46508-9}, \ \texttt{MC46508-11}, \ \texttt{MC46508-12}, \ \texttt{MC46508-13}, \ \texttt{MC46508-14}$

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

Project: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP26448 Methods: SW846 6010C Matrix Type: AQUEOUS Units: ug/l

Prep Date:

06/23/16

FIED Date.					00/25/10	
Metal	MC46508 Origina		Spikelo MPICP7		MSD RPD	QC Limit
Aluminum						
Antimony	0.0	490	500	98.0	3.8	20
Arsenic	29.4	509	500	95.9	4.2	20
Barium						
Beryllium	0.20	480	500	96.0	1.9	20
Bismuth						
Boron						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper	3.4	470	500	93.3	4.0	20
Gold						
Iron	anr					
Lead	0.0	948	1000	94.8	4.1	20
Lithium						
Magnesium						
Manganese						
Molybdenum						
Nickel	4.6	482	500	95.5	4.3	20
Palladium						
Platinum						
Potassium						
Selenium	0.0	478	500	95.6	4.1	20
Silicon						
Silver						
Sodium						
Sulfur						
Strontium						
Thallium						
Tin						
Titanium						
Tungsten						

Project: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP26448 Matrix Type: AQUEOUS Methods: SW846 6010C

Units: ug/l

Prep Date:

06/23/16

Metal	MC46508 Origina		Spikelo MPICP7	t % Rec	MSD RPD	QC Limit
Vanadium	0.0	479	500	95.8	3.7	20
Zinc	22.7	534	500	102.3	4.6	20
Zirconium						

Associated samples MP26448: MC46508-1, MC46508-2, MC46508-3, MC46508-4, MC46508-5, MC46508-6, MC46508-7, $\texttt{MC46508-8}, \ \texttt{MC46508-9}, \ \texttt{MC46508-11}, \ \texttt{MC46508-12}, \ \texttt{MC46508-13}, \ \texttt{MC46508-14}$

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

Project: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP26448 Matrix Type: AQUEOUS Methods: SW846 6010C Units: ug/l

Prep Date:	06/23/16	06/23/16

Metal	BSP Result	Spikelot MPICP7	% Rec	QC Limits	BSD Result	Spikelot MPICP7	% Rec	BSD RPD	QC Limit
Aluminum									
Antimony	503	500	100.6	80-120	505	500	101.0	0.4	20
Arsenic	493	500	98.6	80-120	497	500	99.4	0.8	20
Barium									
Beryllium	489	500	97.8	80-120	491	500	98.2	0.4	20
Bismuth									
Boron									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper	484	500	96.8	80-120	491	500	98.2	1.4	20
Gold									
Iron	anr								
Lead	991	1000	99.1	80-120	992	1000	99.2	0.1	20
Lithium									
Magnesium									
Manganese									
Molybdenum									
Nickel	498	500	99.6	80-120	501	500	100.2	0.6	20
Palladium									
Platinum									
Potassium									
Selenium	493	500	98.6	80-120	493	500	98.6	0.0	20
Silicon									
Silver									
Sodium									
Sulfur									
Strontium									
Thallium									
Tin									
Titanium									
Tungsten									
				_	age 1				

SGS ACCUTEST MC46508

Project: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP26448 Matrix Type: AQUEOUS Methods: SW846 6010C Units: ug/l

Prep Date:

06/23/16

06/23/16

Metal	BSP Result	Spikelot MPICP7	% Rec	QC Limits	BSD Result	Spikelot MPICP7	% Rec	BSD RPD	QC Limit
Vanadium	493	500	98.6	80-120	498	500	99.6	1.0	20
Zinc	538	500	107.6	80-120	541	500	108.2	0.6	20
Zirconium									

Results < IDL are shown as zero for calculation purposes (*) Outside of QC limits

(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: MC46508 Account: FDG - CB&I

Project: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP26448 Methods: SW846 6010C Matrix Type: AQUEOUS Units: ug/l

Prep Date: 06/23/16

Metal	MC46508- Original	1 SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony	0.00	0.00	NC	0-10
Arsenic	29.4	27.9	5.1	0-10
Barium				
Beryllium	0.200	0.00	100.0(a)	0-10
Bismuth				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper	3.40	4.70	38.2 (a)	0-10
Gold				
Iron	anr			
Lead	0.00	0.00	NC	0-10
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel	4.60	4.90	6.5	0-10
Palladium				
Platinum				
Potassium				
Selenium	0.00	0.00	NC	0-10
Silicon				
Silver				
Sodium				
Sulfur				
Strontium				
Thallium				
Tin				
Titanium				
Tungsten				

SERIAL DILUTION RESULTS SUMMARY

Login Number: MC46508 Account: FDG - CB&I

Project: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP26448 Methods: SW846 6010C Matrix Type: AQUEOUS Units: ug/l

Prep Date: 06/23/16

Metal	MC46508 Origina	-1 l SDL 1:5	%DIF	QC Limits
Vanadium	0.00	0.00	NC	0-10
Zinc	22.7	23.4	3.1	0-10
Zirconium				

Associated samples MP26448: MC46508-1, MC46508-2, MC46508-3, MC46508-4, MC46508-5, MC46508-6, MC46508-7, MC46508-8, MC46508-9, MC46508-11, MC46508-12, MC46508-13, MC46508-14

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits
(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

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41 of 41 ACCUTEST MC46508



ACCUTESTNew England

07/05/16

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Automated Report

Technical Report for

CB&I

NRG Montville Lathrop Rd. Uncasville, CT

1009644013. PO#112003

SGS Accutest Job Number: MC46508A

Sampling Date: 06/16/16

Report to:

vallerie.sasso@cbi.com

ATTN: Distribution6

Total number of pages in report: 20



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

H. (Brad) Madadian Lab Director

Client Service contact: Frank DAgostino 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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Sample Summary

CB&I

Job No:

MC46508A

NRG Montville Lathrop Rd. Uncasville, CT Project No: 1009644013. PO#112003

Sample	Collecte	ed	Matrix	Client
Number	Date	Time By	Received Code Type	Sample ID
MC46508-10	0 06/16/1	6 14·45 DL	06/21/16 AO Groun	d Water NRG-MW5

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CB&I Job No MC46508A

Site: NRG Montville Lathrop Rd. Uncasville, CT Report Date 7/5/2016 8:19:26 AM

1 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on 06/16/2016 and were received at SGS Accutest New England on 06/21/2016 properly preserved, at 0.6 Deg. C and intact. These Samples received a job number of MC46508A. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Metals By Method SW846 6020A

Matrix: AQ Batch ID: MP26454

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC46569-1SDL were used as the QC samples for metals.
- Only selected metals requested.
- RPD(s) for Serial Dilution for Beryllium, Vanadium are outside control limits for sample MP26454-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).</p>
- MP26454-SD1 for Nickel: Serial Dilution RPD acceptable due to low duplicate and sample concentrations.
- MP26454-SD1 for Zinc: Serial dilution indicates possible matrix interference.

SGS Accutest New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Laboratory Director for SGS Accutest New England or assignee as verified by the signature on the cover page has authorized the release of this report(MC46508A).



Summary of Hits Job Number: MC46508A

Job Number: MC46508A Account: CB&I

Project: NRG Montville Lathrop Rd. Uncasville, CT

Collected: 06/16/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC46508-10	NRG-MW5					
Arsenic		4.7	1.0	0.62	ug/l	SW846 6020A
Beryllium		0.097 B	1.0	0.040	ug/l	SW846 6020A
Copper		0.53 B	2.0	0.34	ug/l	SW846 6020A
Nickel		9.7	4.0	0.22	ug/l	SW846 6020A
Vanadium		7.9 B	8.0	3.0	ug/l	SW846 6020A
Zinc		28.9	8.0	1.5	ug/l	SW846 6020A



Section 4

Sample Results		
Report of Analysis	3	

Page 1 of 1

Report of Analysis

Client Sample ID: NRG-MW5

Lab Sample ID: MC46508-10

Matrix: AQ - Ground Water

Date Sampled: 06/16/16

Percent Solids: n/a

Project: NRG Montville Lathrop Rd. Uncasville, CT

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	4.7	1.0	0.62	ug/l	2	06/24/16	06/29/16 EAL	SW846 6020A ²	SW846 3010A ³
Beryllium	0.097 B	1.0	0.040	ug/l	2	06/24/16	06/27/16 EAL	SW846 6020A ¹	SW846 3010A ³
Copper	0.53 B	2.0	0.34	ug/l	2	06/24/16	06/27/16 EAL	SW846 6020A ¹	SW846 3010A ³
Nickel	9.7	4.0	0.22	ug/l	2	06/24/16	06/27/16 EAL	SW846 6020A ¹	SW846 3010A ³
Vanadium	7.9 B	8.0	3.0	ug/l	2	06/24/16	06/27/16 EAL	SW846 6020A ¹	SW846 3010A ³
Zinc	28.9	8.0	1.5	ug/l	2	06/24/16	06/27/16 EAL	SW846 6020A ¹	SW846 3010A ³

(1) Instrument QC Batch: MA19273(2) Instrument QC Batch: MA19281(3) Prep QC Batch: MP26454

RL = Reporting Limit U = Indicates a result < MDL

MDL = Method Detection Limit B = Indicates a result > = MDL but < RL





Section 5

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- · Chain of Custody
- RCP Form
- Sample Tracking Chronicle
- QC Evaluation: CT RCP Limits

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MC46508A: Chain of Custody Page 1 of 5

Accutest Laboratories of New England 495 Technology Center West, Building One TEL. 508-481-6200 FAX: 508-481-7753 www.accutest.com Requested Analysis (see TEST CODE sheet) 1999 C465087 Client / Reporting Information Project Information San San CB&I Environmental NRG Montville DW - Drinking Weter GW - Ground Water WW - Water SW - Surface Water SO - Sol St - Sudge SED-Sadment O1 - ON ILIO - Other Solid WP - Wige FB-Field Blank RB - Rinse Blank TB- Rinse Blank DW - Drinking Wate 150 Royall Street Lathrop Rd. Billing Information (If different from Report to) Uncasville, CT Canton, MA 02021 Andrew Walker 617-589-6143 1009644013 Cilv 112003 617-589-6143 Daniel Leahy 617-212-8276 Andrew Walker Field ID / Point of Collection MEOH/DI Vial # LAB USE ONLY GW NRG-NW8 6/17/16 0830 DL incorrect ACCI-SB2-MWI 6/16/16 104002 abbreviation 'An' 6/17/16 1345 DL MW-11 should be 'Sb' for incorrect MV-6 6/16/16 0940 OZ V antimony. abbreviation 'An' should be 'Sb' for antimony sample 'MV-6' also needs to be analyzed for beryllium, copper, and zinc. Comments / Special Instructions

CODER ROP AND 5:12 SPECIE

SAPP NYASP Category A
NYASP Category B Turnaround Time (Business days) oved By (Accutest PM): / Date Std. 10 Business Days Commercial "B" (Level 2)

FULLT1 (Level 3+4) Std. 5 Business Days (By Co State Forms EDD Format GLS KEE'S CT RCP Other_ 2 Day EMERGENCY Commercial "A" ≈ Results Onl 1 Day EMERGENCY Commercial "B" = Results + QC Summary ergency & Rush T/A data ava Sample Custody must be documented below each time samples change possession, including courier delivery.

| Retirectified By: | Date Time: 6/18/160630

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MC46508A: Chain of Custody

PAGE 2 OF 2

Page 2 of 5

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Canton, MA 02021	Uncas	ville, Cl	-	- Ctra	l Address	·····							12.			13	1	13	1	3		16	it	St Sludge SED-Sediment	
Andrew.Walker@cbi.com	10096	44013		Stree	n Address								25			E"	1	13 6		126	13:	12	ŞŽ	O! - Oil LIQ - Other Liquid AJR - Air	
Phone # Fax # 617-589-6143	Client PO# 11200	3		City				State			Zip		103	1		N		1 3		447	4	36,	ું ફે	SOL - Other Solid WP - Wipe	
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-1 AOCI2-MW305		6/16/16	0840	DL	600	1		1			П		1								T				1
-2 NR6-MW7		6/16/16	1305		L	l		Ĺ			П		1												
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Client / Reporting Information		41478 CO 0000			cutest.c		ricks seed	pristiye p	Ogleve	60,700	V4595-194	No.	00/2000	elijani iner	<u> </u>	(Verydon o			104	<u>63</u>	
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150 Royall Street	Lath	rop Rd.			Billing Ir	formation	n (If di	ferer	t from	Repo	rt to)	12 11	N N		1	w.					WW - Water SW - Surface Water
City State Canton, MA 02021		sville,	СТ		pany Nam	e						10	120		2	7					SO - Soil SL- Sludge SED-Sediment
Project Contact E-mail Andrew Walker 617-58		644013			et Address							183	31		P	4					OI - Oil LIQ - Olher Liquid AIR - Air
Phone # Fax # 617-589-6143	Client PO# 1120	03		City			Sta	te		Ζip		136	1		5	8	1 -				SOL - Other Solid WP - Wipe
Sampler(s) Name(s) Phone	# Project Manage	er		Alten	tion:			F	O#		,		15.	9	8	1	12				FB-Field Blank EB- Equipment Blank RB- Rinse Blank
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-12 ACCI-SB2-ML		6/16/16	1040		\vdash	1,	\perp	1	44	-	4				<u> </u>	4	-			ota	
-13 MW-11		6/17/16	1345	DL	Η,	$\sqcup \sqcup$	\perp	1	\perp	Ш	_				1	4	_			\bot	
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MC46508A: Chain of Custody Page 4 of 5

https://email.sgs.com/owa/?ae=Item&t=IPM.Note&id=RgAAAA... 6/21/2016

-M-46508

revised COC for NRG-Montville samples (picked up at Canton Monday)

Steele, Andrea [Andrea.Steele@cbi.com]

Tuesday, June 21, 2016 8:14 AM Sent:

D'Agostino, Frank (Marlborough)

ö ö

Sasso, Vallerie [Vallerie.Sasso@cbi.com]; Walker, Andrew

[Andrew.Walker@cbi.com]

Attachments: 06-16-2016 GW revised COC.pdf (1 MB)

Please see attached revised COC for the NRG-Montville project groundwater samples picked up at our Canton

Thank you - Andrea. office yesterday.

Andrea E. Steele Environmental & Scientist Environmental & Sustainability acidities & Plant Services Capital Services Capital Services Capital Services Capital Services Capital Services Fax. +1 &17 589 6,405 Andrea steele

CB&I 150 Royall Street Canton, MA 02021 USA www.CBI.com

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> MC46508A: Chain of Custody Page 5 of 5

5.2

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Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form

Laboratory Name: Accutest New England Client: CB&I

Project Location: NRG Montville Lathrop Rd. Uncasville, Project Number: 1009644013. PO#

СТ

Sampling Date(s): 6/16/2016

Laboratory Sample ID(s): MC46508-10

Methods: SW846 6020A

Methods:	SW846 6020A		
1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents)?	Yes 🔽	No 🗖
1A	Where all the method specified preservation and holding time requirements met?	Yes 🔽	No 🔲
1B	VPH and EPH mehods only: Was the VPH or EPH method conducted without significant modifications (See section 11.3 of respective methods)	Yes 🗖	No 🗆
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes 🔽	No 🗖
3	Were samples received at an appropriate temperature (<6° C)?	Yes 🗹	No 🗆
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	Yes \square	No 🔽
5	a) Were reporting limits specified or referenced on the chain-of-custody?	Yes 🔽	No 🗖
	b) Were these reporting limits met?	Yes 🔽	No 🗖
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	Yes 🗖	No 🔽
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	Yes 🗖	No 🔽

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

Authorized

Signature: Handalum Position: Lab Director

Printed Name: H. (Brad) Madadian Date: 7/5/2016

Accutest New England

5.3

Internal Sample Tracking Chronicle

CB&I

Job No: MC46508A

NRG Montville Lathrop Rd. Uncasville, CT Project No: 1009644013. PO#112003

Analyzed	Ву	Prepped	Ву	Test Codes
5 14:45 By: DL	Recei	ved: 21-JUN-	-16 By	: NT
27-JUN-16 12:43	EAL	24-JUN-16	EM	BEMS, CUMS, NIMS, VMS, ZNM
	5 14:45 By: DL 27-JUN-16 12:43	5 14:45 By: DL Recei	5 14:45 By: DL Received: 21-JUN- 27-JUN-16 12:43 EAL 24-JUN-16	

5.4

QC Evaluation: CT RCP Limits

Job Number: MC46508A **Account:** CB&I

Project: NRG Montville Lathrop Rd. Uncasville, CT

Collected: 06/16/16

QC Sample ID CAS# Analyte Sample Result Result Units Limits
Type Type

No Exceptions found.

^{*} Sample used for QC is not from job MC46508A



Section 6

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries



BLANK RESULTS SUMMARY Part 2 - Method Blanks

Login Number: MC46508A Account: FDG - CB&I

Project: NRG Montville Lathrop Rd. Uncasville, CT

QC Batch ID: MP26454 Matrix Type: AQUEOUS Methods: SW846 6020A

Units: ug/l

Prep Date:

06/24/16

Metal	RL	IDL	MDL	MB raw	final
Aluminum	50	. 46	4.2		
Antimony	1.0	.019	.032		
Arsenic	1.0	.078	.62	-0.38	<1.0
Barium	2.0	.024	.15		
Beryllium	1.0	.0042	.04	0.0099	<1.0
Boron	10	.03	.38		
Cadmium	1.0	.0074	.04		
Calcium	500	15	72		
Chromium	2.0	.36	.34		
Cobalt	1.0	.003	.019		
Copper	2.0	.013	.34	0.074	<2.0
Iron	50	.5	15		
Lead	1.0	.006	.048		
Magnesium	500	.11	1.7		
Manganese	4.0	.03	.36		
Molybdenum	2.0	.068	.088		
Nickel	4.0	.012	.22	-0.56	<4.0
Potassium	500	7.6	18		
Selenium	2.0	.19	.22		
Silver	1.0	.0034	.024		
Sodium	500	.82	15		
Strontium	10	.0068	.028		
Thallium	1.0	.015	.06		
Tin	10	.011	1.6		
Titanium	2.0	.15	.13		
Vanadium	8.0	.36	3	7.4	<8.0
Zinc	8.0	.032	1.5	0.37	<8.0

Associated samples MP26454: MC46508-10

Results < IDL are shown as zero for calculation purposes (*) Outside of QC limits (anr) Analyte not requested



SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC46508A Account: FDG - CB&I

Project: NRG Montville Lathrop Rd. Uncasville, CT

QC Batch ID: MP26454 Methods: SW846 6020A Matrix Type: AQUEOUS Units: $\mbox{ug/l}$

Prep Date:			06/24/16					06/24/16	
Metal	BSP Result	Spikelot MPICP7	% Rec	QC Limits	BSD Result	Spikelot MPICP7	% Rec	BSD RPD	QC Limit
Aluminum									
Antimony									
Arsenic	524	500	104.8	80-120	517	500	103.4	1.3	
Barium									
Beryllium	484	500	96.8	80-120	499	500	99.8	3.1	
Boron									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper	471	500	94.2	80-120	462	500	92.4	1.9	
Iron	anr								
Lead									
Magnesium									
Manganese	anr								
Molybdenum									
Nickel	480	500	96.0	80-120	470	500	94.0	2.1	
Potassium									
Selenium									
Silver									
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium	498	500	99.6	80-120	490	500	98.0	1.6	
Zinc	489	500	97.8	80-120	480	500	96.0	1.9	

Associated samples MP26454: MC46508-10

Results < IDL are shown as zero for calculation purposes (*) Outside of QC limits (anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: MC46508A Account: FDG - CB&I

Project: NRG Montville Lathrop Rd. Uncasville, CT

QC Batch ID: MP26454 Methods: SW846 6020A Matrix Type: AQUEOUS Units: $\mbox{ug/1}$

Prep Date: 06/24/16

Metal	MC46569- Original	1 SDL 2:10	%DIF	QC Limits		
Aluminum						
Antimony						
Arsenic	207	212	2.5	0-10		
Barium						
Beryllium	0.0169	0.0474	180.4(a)	0-10		
Boron						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper	6.34	6.24	1.6	0-10		
Iron	anr					
Lead						
Magnesium						
Manganese	anr					
Molybdenum						
Nickel	1.22	1.06	13.6 (b)	0-10		
Potassium						
Selenium						
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium	9.82	19.0	93.6 (a)	0-10		
Zinc	19.4	27.0	39.4 (c)	0-10		

Associated samples MP26454: MC46508-10

Results < IDL are shown as zero for calculation purposes

- (*) Outside of QC limits
- (anr) Analyte not requested
- (a) Percent difference acceptable due to low initial sample $\,$ concentration (< 50 times IDL).
- (b) Serial Dilution RPD acceptable due to low duplicate and sample concentrations.
- (c) Serial dilution indicates possible matrix interference.



ATTACHMENT 2

ENGINEERED CONTROL INSPECTION REPORTS

Table 1

Engineered Control Inspection Checklist Montville Generating Station Montville, CT

Problem Code

ACE 1 or 2 = Aggregate Cover Erosion, Moderate or Severe

ACSW 1 or 2 = Aggregate Cover Subsurface Washout, Moderate or Severe

SCE 1 or 2 = Soil Cover Erosion, Moderate or Severe

SCSW 1 or 2 = Soil Cover Subsurface Washout, Moderate or Severe

GD 1 or 2 = Vegetation Dead, Moderate or Severe

GE 1 or 2 = Vegetation Erosion, Moderate or Severe

GP = Vegetation Water Ponding Observed

GSF = Vegetation Slope Failure

GSW = Vegetation Subsurface Washout

PDSO = Perimeter Drainage Swale Obstructed

DCO = Drainage Culvert Obstructed

AP C1 = Asphalt Pavement Cracks > 1/2 inch

NC = NO CHAMBES SINCE CONSTAUCTION COMPLOSE

AP C2 = Asphalt Pavement "pothole"

SF = Slope Failure

O = Other

		-	
Remedial Areas (1)	Location (1) (2)	Problem Code	Repair Requirements and Notes (Provide Description) (3)
AOC 3B	ı	- Carrier of	WEGT PAVIT & STONE-NO CHANGE
Existing Asphalt Engineered Control	Ž		EAST PAN'T + STONE - No LHANGE
·	3		LUSIDE GATAMEMENT STONE -, SUCHANGE
Prior Repair Area (4)			FIRST QUELL INSPECTION
·	4	-	NERTH CONSPERE + WALL-NO CHANGE
AOC 9			
Low Permeability Engineered Controls	,		GRASS ON - NO CHANGE
			GRASSON - NO CHANGE COVER OK - N.C.
Prior Repair Area (4)	NA		
	_ ′		
AOC 12			* EAST TUEST OF AOCL
Aggregate Engineered Control	1		5 OF TAIME STONE + RIP RAP TO GATE W.C.
	2		NOF GATES N. C.
Existing Asphalt Engineered Control	1		SOFTANKS - NO CHARGE
	2		NOF GATE STONE PROPERT N.C
Prior Repair Area (4)	NA		
	/.		

- (1) Use Sheets 2, 4, 5 and 6 of the Engineered Control Drawings for the Inspection Plan.
- (2) At least one photograph should accompany each location number.
- (3) Supplementary computations and design text may be required for significant repairs
- (4) Document condition of each area identified and repaired during previous inspection.

CRYCK SCALING FRANT N, WOF PHANT BLOG -NO CHARGE, FENCIPEN SCALED LINES, NO RORAIR NEEDED

AOLG STONG-NC. ACC 3A STONE -N.C.

NRG Montville 1009644013 Client: **Project Number:**

EC Post Construction

Inspection Q1 2016 Montville, CT Site Name: **Site Location:**

Photographer:

Paul Farrington

Date:

02/02/2016

Direction:

Northeast

Comments:

AOC 3B and pavement crack sealing NW of plant building.

No change since construction complete.



Photographer:

Paul Farrington

Date: 02/02/2016

Direction

West

Comments:

AOC 3B East end of containment.



NRG Montville 1009644013 Client: **Project Number:**

EC Post Construction

Inspection Q1 2016 Montville, CT Site Name: Site Location:

Photographer:

Paul Farrington

Date:

02/02/2016

Direction:

South

Comments:

AOC 3B West portion of containment.

No change since construction complete.



Photographer:

Paul Farrington

Date: 02/02/2016

Direction

East

Comments:

AOC 9 Eastern portion.



NRG Montville 1009644013 Client: **Project Number:**

EC Post Construction

Inspection Q1 2016 Montville, CT Site Name: **Site Location:**

Photographer:

Paul Farrington

Date:

02/02/2016

Direction:

West

Comments:

AOC 9 Western portion.

No change since construction complete.



Photographer:

Paul Farrington

Date: 02/02/2016

Direction

North

Comments:

AOC 12 West of dock. Perimeter road.



NRG Montville 1009644013 Client: **Project Number:**

EC Post Construction

Inspection Q1 2016 Montville, CT Site Name: **Site Location:**

Photographer:

Paul Farrington

Date:

02/02/2016

Direction:

East

Comments:

AOC 12 N of lagoon. Shoreline and perimeter road.

No change since construction complete.



Photographer:

Paul Farrington

Date: 02/02/2016

Direction

North

Comments:

AOC 12 SW of Treatment Pond.



Post-Construction Engineered Control Inspection Checklist Montville Generating Station Montville, CT

Problem Code

ACE 1 or 2 = Aggregate Cover Erosion, Moderate or Severe

ACSW 1 or 2 = Aggregate Cover Subsurface Washout, Moderate or Severe

SCE 1 or 2 = Soil Cover Erosion, Moderate or Severe

SCSW 1 or 2 = Soil Cover Subsurface Washout, Moderate or Severe

GD 1 or 2 = Vegetation Dead, Moderate or Severe GE 1 or 2 = Vegetation Erosion, Moderate or Severe

GE 1 or 2 = Vegetation Erosion, Moderate or Se GP = Vegetation Water Ponding Observed

GSF = Vegetation Slope Failure

GSW = Vegetation Subsurface Washout

PDSO = Perimeter Drainage Swale Obstructed

DCO = Drainage Culvert Obstructed

AP C1 = Asphalt Pavement Cracks > 1/2 inch

AP C2 = Asphalt Pavement "pothole" SF = Slope Failure

FSLD = Fencing, Signage, Locks Damaged

SLM = Signage, Locks Missing

O = Other

Remedial Areas (1)	Photo Location (1) (2)	Problem Code	Repair Requirements and Notes (Provide Description) (3)	
AOC 3B, Petroleum Storage Area (Day Tank)				
Concrete Engineered Control - W end AOC 3B (interi	or)			
Stone Inside Containment (interior)				
Aggregate Engineered Control - E side of AOC 3B (ex	cterior)			
Existing Asphalt Engineered Control - AOC 3B East t	o river			
Prior Repair Area (4)				
AOC 5, Former Ash Settling Ponds			walk perimeter security fence for inspection; access through locked gate	
Access Control Fencing and Signage				
Prior Repair Area (4)				
AOC 9, Former Dredge Spoils Location			access through locked gate	
Low Permeability Engineered Control - East			THICK GRASS COVERING - OK NO BRI	205100
Surrounding Topsoil and Seeding			THICK GRASS COVERING - OK NO BRI	05/00
Low Permeability Engineered Control - West			MODERNE GRASS CONFRING-OK NO BE	NOS/CW
Access Control Fencing and Signage				
Prior Repair Area (4)				
AOC 12, Former Coal and Coal Ash Handling Are	а		access to portions of AOC 12 through locked gate(s)	
Aggregate Engineered Control - N of AOC 3A				
Aggregate Engineered Control - AOC 3A and West				
Aggregate Engineered Control - S of AOC 3A				
Existing Asphalt Engineered Control - E of AOC 3A			ASPANT PERMUTY RESENTED - GOOD	CONDITTON
Aggregate and Rip Rap Shoreline - at and N of dock			IN VERY GOOD CONDITION	
Rip Rap Shoreline - S of dock				
Existing Asphalt Engineered Control - E of AOC 6				
Aggregate Engineered Control - AOC 6 and surround				
Existing Asphalt Engineered Control - W of AOC 6				
Existing Asphalt Engineered Control - N and W of Ma	in Building			
Aggregate Engineered Control - around AOC 1				
Prior Repair Area (4)				

- (1) Use Sheets 2 and 3 of the As-Built Engineered Control Drawing last revised 2/18/2016 for the Inspection Plan.
- (2) At least one photograph should accompany each location (line item). Mark corresponding photo location number on Inspection Plan.
- (3) Supplementary computations and design text may be required for significant repairs
- (4) Document condition of each area identified and repaired during previous inspection.

6/17

6/17

Post-Construction Engineered Control Inspection Checklist Montville Generating Station, Montville, CT

Completed by (PRINT):	Astul	Y-mant
1 1	1. 1.	

Signature: And Must

Company: (B+I

Date: 06-16-16

Problem Code

ACE 1 or 2 = Aggregate Cover Erosion, Moderate or Severe ACSW 1 or 2 = Aggregate Cover Subsurface Washout, Moderate or Severe SCE 1 or 2 = Soil Cover Erosion, Moderate or Severe SCSW 1 or 2 = Soil Cover Subsurface Washout, Moderate or Severe

GD 1 or 2 = Vegetation Dead, Moderate or Severe

GE 1 or 2 = Vegetation Erosion, Moderate or Severe GP - Vegetation Water Ponding Observed

GSF - Vegetation Slope Failure GSW - Vegetation Subsurface Washout

PDSO - Perimeter Drainage Swale Obstructed

DCO = Drainage Culvert Obstructed

AP C1 = Asphalt Pavement Cracks > 1/2 inch

AP C2 = Asphalt Pavement "pothole" SF = Slope Failure

FSLD = Fencing, Signage, Locks Damaged SLM = Signage, Locks Missing

O = Other

Remedial Areas (1)	Photo Location (1)(2)	Problem Code	Repair Requirements and Notes (Provide Description) (3)
AOC 3B, Petroleum Storage Area (Day Tank)			
Concrete Engineered Control - W end AOC 3B (inter	nor) / 4		concrete wall in good condition, no observed concles, hales
Stone Inside Containment (interior)	15,16		stone provides 100% cover inside antennent
Aggregate Engineered Control - E side of AOC 3B (c			Photo 19, sidore in good condition
Existing Asphalt Engineered Control - AOC 3B East	to river		photos 17, By asphilt in good andihan no holes or standing unt
Prior Repair Area (4)			NIA
AOC 5, Former Ash Settling Ponds			walk perimeter security fence for inspection; access through locked gate
Access Control Fencing and Signage	20		myticle photos of Fercing, fercing all intert, no holes, no vegetation
Prior Repair Area (4)			NIA all darstanks were liked sin special
AOC 9, Former Dredge Spoils Location			access through locked gate
Low Permeability Engineered Control - East			
Surrounding Topsoil and Seeding			
Low Permeability Engineered Control - West			
Access Control Fencing and Signage	21		PNRE SIATINGE, gade us licked and secure
Prior Repair Area (4)			NIA
AOC 12, Former Coal and Coal Ash Handling Are			access to portions of AOC 12 through locked gate(s)
Aggregate Engineered Control - N of AOC 3A			no incress, completed 06-17 by D.L.
Aggregate Engineered Control - AOC 3A and West	3		sordway and show one in good condition
Aggregate Engineered Control - S of AOC 3A	12		some on Both sides of fence in good condition, 100% comer
Existing Asphalt Engineered Control - E of AOC 3A	,		notices, completed 06-17 By D.L.
Aggregate and Rip Rap Shoreline - at and N of dock			noques, completed 06-17 By O.L
Rip Rap Shoreline - S of dock	4,5		Source charles as and a dilier
Existing Asphalt Engineered Control - E of AOC 6	6		asphalt in good condition in preus new
Aggregate Engineered Control - AOC 6 and surround	7,8		asphalt in good condition appears new short in a AOC'S and surranding area in good condition, 1003. Co
Existing Asphalt Engineered Control - W of AOC 6	9		asphalt in sold condition, appears new
Existing Asphalt Engineered Control - N and W of Ma	un Bldg.		Photos 10 M all asphilt Nandwof Man holding is in gooden
Oppregate Engineered Control - around AOC 1	12,13		stone afond Aoci in good condition late com
			N/A

⁽¹⁾ Use Sheets 2 and 3 of the As-Built Engineered Control Drawing last revised 2/18/2016 for the Inspection Plan.

⁽²⁾ At least one photograph should accompany each location (line item). Mark corresponding photo location number on Inspection Plan.

Supplementary computations and design text may be required for significant repairs
 Document condition of each area identified and repaired during previous inspection.
 PNRGMant/REC Improves Past Condition por

Post-Construction Engineered Control Inspection Checklist Montville Generating Station, Montville, CT

Completed by (PRINT): P. FARRING, FON / MAGNANT Company: CB+I
Signature: Date: 10-13-16

Problem Code
ACE 1 or 2 = Aggregate Cover Erosion, Moderate or Severe

ACSW 1 or 2 = Aggregate Cover Subsurface Washout, Moderate or Severe

SCE 1 or 2 = Soil Cover Erosion, Moderate or Severe

SCSW 1 or 2 = Soil Cover Subsurface Washout, Moderate or Severe

GD 1 or 2 = Vegetation Dead, Moderate or Severe

GE 1 or 2 = Vegetation Erosion, Moderate or Severe

GP = Vegetation Water Ponding Observed

GSF = Vegetation Slope Failure

GSW = Vegetation Subsurface Washout

PDSO = Perimeter Drainage Swale Obstructed

DCO = Drainage Culvert Obstructed

AP C1 = Asphalt Pavement Cracks > 1/2 inch

AP C2 = Asphalt Pavement "pothole"

SF = Slope Failure

FSLD = Fencing, Signage, Locks Damaged

SLM = Signage, Locks Missing

O = Other

Remedial Areas (1)	Photo Location (1) (2)	Problem Code	Repair Requirements and Notes (Provide Description) (3)	
AOC 3B, Petroleum Storage Area (Day Tank)				
Concrete Engineered Control - W end AOC 3B (inte	rior) 10		good certition, no standing water, no cracks observed	
Stone Inside Containment (interior)	13		good condition no change since ender withouten	
Aggregate Engineered Control - E side of AOC 3B (exterior)	1	good condition, no change Since Construction	
Existing Asphalt Engineered Control - AOC 3B East	to river 15		good cerdition	
Prior Repair Area (4)			=======================================	
AOC 5, Former Ash Settling Ponds			walk perimeter security fence for inspection; access through locked gate	
Access Control Fencing and Signage	17,18,		Cleaned access rate is avergan, signs present	
Prior Repair Area (4)		602	overgours vegetation, needs to be marked	
AOC 9, Former Dredge Spoils Location			access through locked gate	
Low Permeability Engineered Control - East	21		well regeleted, consider maring	
Surrounding Topsoil and Seeding	23		vell vegetated, lossicle- mexing	
Low Permeability Engineered Control - West	22		well vegetated, Consider moving Well vegetated, no erision, consider mining, deer path ab good condition, overgrown as pre-constraining, signing	Lious
Access Control Fencing and Signage			goal condition, over our as ex-constration, signer	e Prese
Prior Repair Area (4)				
AOC 12, Former Coal and Coal Ash Handling Ar	ea		access to portions of AOC 12 through locked gate(s)	i i
Aggregate Engineered Control - N of AOC 3A			Photo 1900 Tour condition, no change since conservation	
Aggregate Engineered Control - AOC 3A and West	2		Photo 450 good and hon, no change one constriction	
Aggregate Engineered Control - S of AOC 3A	3			
Existing Asphalt Engineered Control - E of AOC 3A	4		asphalt good condition, no change since anstording use	EBP4.
Aggregate and Rip Rap Shoreline - at and N of dock	5		YESE EB Phils	
Rip Rap Shoreline - S of dock	6		good cardidan, no changesince construction	
Existing Asphalt Engineered Control - E of AOC 6	9		Soul condition, no though since anotherin	
Aggregate Engineered Control - AOC 6 and surround	17		good condition, no Change since construction	
Existing Asphalt Engineered Control - W of AOC 6	3		good condition to & honge since construction	
Existing Asphalt Engineered Control - N and W of M	lain Bldg.	11,12	good cordifica no change since construction	
Aggregate Engineered Control - around AOC I	16	- E	and condition, as change since construction	
Prior Repair Area (4)				

⁽¹⁾ Use Sheets 2 and 3 of the As-Built Engineered Control Drawing last revised 2/18/2016 for the Inspection Plan.

⁽²⁾ At least one photograph should accompany each location (line item). Mark corresponding photo location number on Inspection Plan.

⁽³⁾ Supplementary computations and design text may be required for significant repairs

⁽⁴⁾ Document condition of each area identified and repaired during previous inspection.
PNNRGWMontvilleEC Inspections Post ComutEC (rsp Checklist_post conxists)

Post-Construction Engineered Control Inspection Checklist Montville Generating Station, Montville, CT

Completed by (PRINT): Ian Cambridge Company: Montvile Power LLC

Date: 9/19/2016 Signature:

Problem Code

ACE 1 or 2 = Aggregate Cover Erosion, Moderate or Severe

ACSW 1 or 2 = Aggregate Cover Subsurface Washout, Moderate or Severe

SCE 1 or 2 = Soil Cover Erosion, Moderate or Severe

SCSW 1 or 2 = Soil Cover Subsurface Washout, Moderate or Severe

GD 1 or 2 = Vegetation Dead, Moderate or Severe

GE 1 or 2 = Vegetation Erosion, Moderate or Severe

GP = Vegetation Water Ponding Observed

GSF = Vegetation Slope Failure $\textbf{GSW} = Vegetation \ Subsurface \ Washout$ PDSO = Perimeter Drainage Swale Obstructed

DCO = Drainage Culvert Obstructed

AP C1 = Asphalt Pavement Cracks > 1/2 inch

AP C2 = Asphalt Pavement "pothole"

SF = Slope Failure

FSLD = Fencing, Signage, Locks Damaged SLM = Signage, Locks Missing

 $\mathbf{O} = \text{Other}$

	Photo		
	Location	Problem	
Remedial Areas (1)	(1) (2)	Code	Repair Requirements and Notes (Provide Description) (3)
AOC 3B, Petroleum Storage Area (Day Tank)	Attache d	NA	No issues noted
AOC 3B, Fetroleum Storage Area (Day Tank)	Attache	NA	INO ISSUES HOTEU
Concrete Engineered Control - W end AOC 3B (interior)	d	NA	No issues noted
	Attache	27.4	N. C. C. C. C. C. C. C. C. C. C. C. C. C.
Stone Inside Containment (interior)	d Attache	NA	No issues noted
Aggregate Engineered Control - E side of AOC 3B (exterior		NA	No issues noted
	Attache		
Existing Asphalt Engineered Control - AOC 3B East to riv	d Attache	NA	No issues noted
Prior Repair Area (4)	d	NA	No issues noted
		<u> </u>	
AOC 5, Former Ash Settling Ponds	Attache		walk perimeter security fence for inspection; access through locked gate
Access Control Fencing and Signage	d	NA	Fence is elevated in somes areas. Allows access to smaller animals.
	Attache		
Prior Repair Area (4)	d	NA	No issues noted
AOC 9, Former Dredge Spoils Location			access through locked gate
AGC 3, Former Dreage Spons Escation	Attache		access through rocked gate
Low Permeability Engineered Control - East	d	NA	No issues noted
C	Attache	NIA	N- i Cd
Surrounding Topsoil and Seeding	d Attache	NA	No issues noted - Good vegetation
Low Permeability Engineered Control - West	d	NA	No issues noted
	Attache		
Access Control Fencing and Signage	d Attache	NA	No issues noted
Prior Repair Area (4)	d	NA	No issues noted
•			
AOC 12, Former Coal and Coal Ash Handling Area			access to portions of AOC 12 through locked gate(s)
	Attache		
Aggregate Engineered Control - N of AOC 3A	d	NA	No issues noted
Aggregate Engineered Control - AOC 3A and West	Attache d	NA	No issues noted
115gsregute Engineered Control 115 C 511 and West	Attache	1112	Tro abado noted
Aggregate Engineered Control - S of AOC 3A	d	NA	No issues noted
Existing Asphalt Engineered Control - E of AOC 3A	Attache d	NA	No issues noted
Existing Aspiran Engineered Condoi - E of AGC 3A	Attache	1471	TO ISSUES HOLEU
Aggregate and Rip Rap Shoreline - at and N of dock	d	NA	No issues noted
Din Dan Charolina C of deal-	Attache	NT A	No issues noted
Rip Rap Shoreline - S of dock	d Attache	NA	No issues noted
Existing Asphalt Engineered Control - E of AOC 6	d	NA	No issues noted
	Attache		
Aggregate Engineered Control - AOC 6 and surround	d Attache	NA	No issues noted
Existing Asphalt Engineered Control - W of AOC 6	d	NA	No issues noted
	Attache		
Existing Asphalt Engineered Control - N and W of Main B		NA	No issues noted
Aggregate Engineered Control - around AOC 1	Attache d	NA	No issues noted
raggregate Engineered Condor - around AOC 1	Attache	11/2	110 ISSUES HOLEU
Prior Repair Area (4)	d	NA	No issues noted
Conoral Notes			Some areas of asphalt have cracks encroaching the 1/2 " mark. Areas will be
General Notes:			identified and resealed when feasible

- (1) Use Sheets 2 and 3 of the As-Built Engineered Control Drawing last revised 2/18/2016 for the Inspection Plan.
- (2) At least one photograph should accompany each location (line item). Mark corresponding photo location number on Inspection Plan.
- (3) Supplementary computations and design text may be required for significant repairs
- (4) Document condition of each area identified and repaired during previous inspection.

 P!NRG|Montville|EC Inspections Post Constitute from Ian|2016 09 19EC Imsp Checkist 9.19.16.xdsx